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TECH CENTER 1600/2900

ATTACHMENT B

Clean Replacement Claims

Following herewith is a clean copy of each claim which replaces each previous claim having the same number.

D 1
1. (Three Times Amended) A wound dressing comprising:

a carrier layer having a wound-facing surface, said carrying layer comprising a polymeric material adherent to anchorage dependent cells and treated on the wound-facing surface thereof to be non-adherent to cells, said polymeric material comprising a polymer selected from a group consisting of polyhydroxyethylmethacrylic acids, cross-lined polyvinylalcohols, polyacrylic acids cross-linked with trialkylsucrose, polyvinylpyrrolidones, polyetherpolyesters, polyetherpolyamides, polyacrylamides, polyethylene oxide, polyurethanes and ethylenevinyl acetate copolymers, said surface being non-adherent to anchorage-dependent cells and having disposed thereon a biodegradable cell anchoring layer comprising a material selected from the group consisting of:

- (i) a polyanion selected from the group consisting of a heparin, an inositol phosphate, fucoidin, syndecan, betaglycan, perlecan, dextran sulphate, pentosan, mesoglycan and polyvinyl sulphate; and
- (ii) a polycation comprising a polypeptide; and

said anchoring layer having anchored thereto mammalian cells which form a cell layer comprising a material selected from the group consisting of keratinocytes and fibroblasts.

D2 38. (Three Times Amended) The wound dressing of claim 1 wherein the wound facing surface is treated with a phosphocholine, a silicone, a polyethylene glycol or a polytetrafluoroethylene.

D3 12A. (Amended) A cell culture system comprising:

(a) a wound dressing comprising a carrier layer having a wound-facing surface, said carrier layer comprising a polymeric material adherent to anchorage dependent cells and treated on the wound-facing surface thereof to be non-adherent to cells, said polymeric material comprising a polymer selected from a group consisting of polyhydroxyethylmethacrylic acids, cross-linked polyvinylalcohols, polyacrylic acids cross-linked with trialkylsucrose, polyvinylpyrrolidones, polyetherpolyesters, polyetherpolyamides, polyacrylamides, polyethylene oxide, polyurethanes and ethylenevinyl acetate copolymers, said surface being non-adherent to anchorage dependent cells and having disposed thereon a biodegradable cell anchoring layer comprising a material selected from the group consisting of:

- (i) a polyanion selected from the group consisting of a heparin, an inositol phosphate, fucoidin, syndecan, betaglycan, perlecan, dextran sulphate, pentosan, mesoglycan and polyvinyl sulphate; and
 - (ii) a polycation comprising a polypeptide; and
- (b) a vessel having interior and exterior surfaces for containing a liquid culture medium for culturing cells and the dressing.

13 18. (Twice Amended) A method of treating a skin trauma site on a mammalian patient comprising the step of applying to a patient a wound dressing, said dressing comprises:

(a) a carrier layer comprising a polymeric material adherent to anchorage dependent cells and treated on a wound-facing surface thereof to be non-adherent to cells, said polymeric material comprising a polymer selected from a group consisting of polyhydroxyethylmethacrylic acids, cross-lined polyvinylalcohols, polyacrylic acids cross-linked with trialkylsucrose, polyvinylpyrrolidones, polyetherpolyesters, polyetherpolyamides, polyacrylamides, polyethylene oxide, polyurethanes and ethylenevinyl acetate copolymers, said wound-facing surface being non-adherent to anchorage dependent cells and having disposed thereon a biodegradable cell anchoring layer comprising a material selected from the group consisting of:

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- (i) a polyanion selected from the group consisting of a heparin, an inositol phosphate, fucoidin, syndecan, betaglycan, perlecan, dextran sulphate, pentosan, mesoglycan and polyvinyl sulphate; and
 - (ii) a polycation comprising a polypeptide; and
- (b) a layer of mammalian cells comprising a material selected from the group consisting of keratinocytes and fibroblasts anchored to the anchoring layer.

14 19. (Amended) A method of preparing a wound dressing comprising the steps

D5
of:

(a) obtaining a surface which is non-adherent to the anchorage dependent cells on a wound facing surface of a carrier layer which comprises a polymeric material adherent to anchorage dependent cells and treated on the wound-facing surface thereof to be non-adherent to cells, said polymeric material comprising a polymer selected from a group consisting of polyhydroxyethylmethacrylic acids, cross-linked polyvinylalcohols, polyacrylic acids cross-linked with trialkylsucrose, polyvinylpyrrolidones, polyetherpolyesters, polyetherpolyamides, polyacrylamides, polyethylene oxide, polyurethanes and ethylenevinyl acetate copolymers;

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(b) forming a biodegradable cell anchoring layer on a non-adherent to anchorage dependent cells surface of a carrier layer, said anchoring layer comprising a material selected from the group consisting of:

(i) a polyanion selected from the group consisting of a heparin, an inositol phosphate, fucoidin, syndecan, betaglycan, perlecan, dextran sulphate, pentosan, mesoglycan and polyvinyl sulphate; and

(ii) a polycation comprising a polypeptide; and

(c) culturing a carrier layer which comprises a non-adherent to anchorage dependent cell surface and biodegradable cell anchoring layer in the presence of mammalian cells comprising a material selected from the group consisting of keratinocytes and fibroblasts.